

DNAzym-Sequenzen-WO-ST25C.txt
SEQUENCE LISTING

<110> Philipps-Universitaet Marburg
<120> Method for producing a cell and/or tissue and/or disease phase
specific medicament
<130> 23593
<160> 154
<170> PatentIn version 3.3
<210> 1
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd1 DNAzyme against GATA-3mRNA

<400> 1
tcggtcagag gctagctaca acgatgcgtt gct 33

<210> 2
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd2 DNAzyme against GATA-3mRNA

<400> 2
ggcgtacgag gctagctaca acgactgctc ggt 33

<210> 3
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd3 DNAzyme against GATA-3mRNA

<400> 3
ggcggcgtag gctagctaca acgagacctg ctc 33

<210> 4
<211> 33

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd4 DNAzyme against GATA-3mRNA

<400> 4
ctcggttcag gctagctaca acgactgggt agc 33

<210> 5
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd5 DNAzyme against GATA-3mRNA

<400> 5
tcctctgcag gctagctaca acgacggggt cct 33

<210> 6
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd6 DNAzyme against GATA-3mRNA

<400> 6
actctgcagaag gctagctaca acgatctgcg agc 33

<210> 7
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd7 DNAzyme against GATA-3mRNA

<400> 7
gggcgacgag gctagctaca acgatctgca att 33

<210> 8
<211> 33
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd8 DNAzyme against GATA-3mRNA

<400> 8
aaggggcgag gctagctaca acgagactct gca

33

<210> 9
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd9 DNAzyme against GATA-3mRNA

<400> 9
aaaacgggag gctagctaca acgacaggtt gta

33

<210> 10
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd10 DNAzyme against GATA-3mRNA

<400> 10
agaataaaag gctagctaca acgagggacc agg

33

<210> 11
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd11 DNAzyme against GATA-3mRNA

<400> 11
atggcagaag gctagctaca acgaaaaacg gga

33

<210> 12
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgdi2 DNAzyme against GATA-3mRNA

<400> 12
aactgggttag gctagctaca acgaggcaga ata

33

<210> 13
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgdi3 DNAzyme against GATA-3mRNA

<400> 13
atccaaaaaag gctagctaca acgatgggta tgg

33

<210> 14
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgdi4 DNAzyme against GATA-3mRNA

<400> 14
aggggaagag gctagctaca acgaaaaaaat cca

33

<210> 15
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgdi5 DNAzyme against GATA-3mRNA

<400> 15
ttttaaaaaag gctagctaca acgatatctt gga

33

<210> 16
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgfd16 DNAzyme against GATA-3mRNA

<400> 16
gtggggggag gctagctaca acgagggaaag gct

33

<210> 17
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgfd17 DNAzyme against GATA-3mRNA

<400> 17
gttgaatag gctagctaca acgattgc tt tcg

33

<210> 18
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgfd18 DNAzyme against GATA-3mRNA

<400> 18
gtcggttgaag gctagctaca acgagatttgc tt

33

<210> 19
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgfd19 DNAzyme against GATA-3mRNA

<400> 19
ggcccgaaag gctagctaca acgaccgcgc gcg

33

<210> 20
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd20 DNAzyme against GATA-3mRNA

<400> 20
tcacccctccag gctagctaca acgaggcctc ggc 33

<210> 21
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd21 DNAzyme against GATA-3mRNA

<400> 21
ccggccgtccag gctagctaca acgactccat ggc 33

<210> 22
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd22 DNAzyme against GATA-3mRNA

<400> 22
ggggccgtccag gctagctaca acgaccagcg cg 33

<210> 23
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd23 DNAzyme against GATA-3mRNA

<400> 23
cgttgagccag gctagctaca acgaggcggg gtg 33

<210> 24
<211> 33
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)..(33)
<223> hgd24 DNAzyme against GATA-3mRNA

<400> 24
ccgcgtccag gctagctaca acgagtaggaa gtg

33

<210> 25
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd25 DNAzyme against GATA-3mRNA

<400> 25
cagcgggttag gctagctaca acgatgcgcc gcg

33

<210> 26
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd26 DNAzyme against GATA-3mRNA

<400> 26
gcacatccag gctagctaca acgactccctc cgg

33

<210> 27
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd27 DNAzyme against GATA-3mRNA

<400> 27
aaaagcacag gctagctaca acgaccacacct cct

33

<210> 28
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)..(33)
<223> hgd28 DNAzyme against GATA-3mRNA

<400> 28
taaaaagcag gctagctaca acgaaatccac ctc

33

<210> 29
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd29 DNAzyme against GATA-3mRNA

<400> 29
gaccgtcgag gctagctaca acgagttaaa aag

33

<210> 30
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd30 DNAzyme against GATA-3mRNA

<400> 30
ttgccttgag gctagctaca acgacgtcga tgt

33

<210> 31
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd31 DNAzyme against GATA-3mRNA

<400> 31
agggcgggag gctagctaca acgagtggtt gcc

33

<210> 32
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)

<223> hgd32 DNAzyme against GATA-3mRNA

<400> 32
tggccctgag gctagctaca acgacgagtt tcc

33

<210> 33
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd33 DNAzyme against GATA-3mRNA

<400> 33
acctctgcag gctagctaca acgacgtggc cct

33

<210> 34
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature --
<222> (1)..(33)
<223> hgd34 DNAzyme against GATA-3mRNA

<400> 34
cgagggtag gctagctaca acgactctgc acc

33

<210> 35
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd35 DNAzyme against GATA-3mRNA

<400> 35
ggcgccacag gctagctaca acgactggct ccc

33

<210> 36
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd36 DNAzyme against GATA-3mRNA

<400> 36
cgggcggcag gctagctaca acgaaacctgg ctc 33

<210> 37
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd37 DNAzyme against GATA-3mRNA

<400> 37
agggatccag gctagctaca acgagaagca gag 33

<210> 38
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd38 DNAzyme against GATA-3mRNA

<400> 38
gggttagggag gctagctaca acgaccatga agc 33

<210> 39
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd39 DNAzyme against GATA-3mRNA

<400> 39
gggctgagag gctagctaca acgatccagg ggg 33

<210> 40
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd40 DNAzyme against GATA-3mRNA

<400> 40
gtggatggag gctagctaca acgagtcttg gag
<210> 41
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd 41 DNAzyme against GATA-3mRNA

<400> 41
cgtggatggag gctagctaca acgaggacgt ctt
<210> 42
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd 42 DNAzyme against GATA-3mRNA

<400> 42
gggggttagag gctagctaca acgaggagag ggg
<210> 43
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd 43 DNAzyme against GATA-3mRNA

<400> 43
ggaggaggag gctagctaca acgagaggcc ggg
<210> 44
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd44 DNAzyme against GATA-3mRNA

<400> 44

33

33

33

33

gcccccccgag gctagctaca acgaaaggag gag
<210> 45
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd45 DNAzyme against GATA-3mRNA

<400> 45
ccggggagag gctagctaca acgagtcctt cgg
<210> 46
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd46 DNAzyme against GATA-3mRNA

<400> 46
ggacagcgag gctagctaca acgaggggcc ggg
<210> 47
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd47 DNAzyme against GATA-3mRNA

<400> 47
tgggggtggag gctagctaca acgaagcgat ggg
<210> 48
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd48 DNAzyme against GATA-3mRNA

<400> 48
cttgaggcag gctagctaca acgatcttc tcg

33
33
33
33
33
33
33
33
33
33

<210> 49
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd49 DNAzyme against GATA-3mRNA

<400> 49
cacctggtag gctagctaca acgattgagg cac 33

<210> 50
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd50 DNAzyme against GATA-3mRNA

<400> 50
gcaggggcag gctagctaca acgactggta ctt 33

<210> 51
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd51 DNAzyme against GATA-3mRNA

<400> 51
ccagcttcag gctagctaca acgagctgtc ggg 33

<210> 52
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd52 DNAzyme against GATA-3mRNA

<400> 52
gtgggacgag gctagctaca acgatccagc ttc 33

<210> 53
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd53 DNAzyme against GATA-3mRNA

<400> 53
ggagtgggag gctagctaca acgagactcc agc 33

<210> 54
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd54 DNAzyme against GATA-3mRNA

<400> 54
atgctgcacag gctagctaca acgagggagt ggg 33

<210> 55
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd55 DNAzyme against GATA-3mRNA

<400> 55
gggcggtcag gctagctaca acgagctgcc acg 33

<210> 56
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd56 DNAzyme against GATA-3mRNA

<400> 56
gaggctccag gctagctaca acgaccaggg cg 33

<210> 57
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd57 DNAzyme against GATA-3mRNA

<400> 57
gtgggtcgag gctagctaca acgagaggag gct 33

<210> 58
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd58 DNAzyme against GATA-3mRNA

<400> 58
aggtggtag gctagctaca acgaggggtg gtg 33

<210> 59
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (1)..(33)
<223> hgd59 DNAzyme against GATA-3mRNA

<400> 59
actcggcag gctagctaca acgagtaggg cg 33

<210> 60
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd60 DNAzyme against GATA-3mRNA

<400> 60
ggagctgtag gctagctaca acgatcggc acg 33

<210> 61
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd61 DNAzyme against GATA-3mRNA

<400> 61
ggacttgcag gctagctaca acgaccgaag ccg 33

<210> 62
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd62 DNAzyme against GATA-3mRNA

<400> 62
gggcctggag gctagctaca acgattgcat ccg 33

<210> 63
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd63 DNAzyme against GATA-3mRNA

<400> 63
tgtgtggag gctagctaca acgacgggcc ttg 33

<210> 64
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd64 DNAzyme against GATA-3mRNA

<400> 64
gttcacacag gctagctaca acgatccctg cct 33

<210> 65

<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd65 DNAzyme against GATA-3mRNA

<400> 65
cagttcacag gctagctaca acgaaactccc tgc 33

<210> 66
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd66 DNAzyme against GATA-3mRNA

<400> 66
cacagttccag gctagctaca acgaaacactc cct 33

<210> 67
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd67 DNAzyme against GATA-3mRNA

<400> 67
gttgccccag gctagctaca acgaaagtca cac 33

<210> 68
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd68 DNAzyme against GATA-3mRNA

<400> 68
tcgcggccag gctagctaca acgaaagtggg gtc 33

<210> 69
<211> 33

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd69 DNAzyme against GATA-3mRNA

<400> 69
cccggtccag gctagctaca acgactcgcc gcc 33

<210> 70
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> hgd70 DNAzyme against GATA-3mRNA

<400> 70
ggcggttcag gctagctaca acgaaggtag tgt 33

<210> 71
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi DNAzyme against T-bet mRNA

<400> 71
tggcttctag gctagctaca acgagccctc gtc 33

<210> 72
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi DNAzyme against T-bet mRNA

<400> 72
gggcctcttag gctagctaca acgagccctgg ctt 33

<210> 73
<211> 33
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi DNAzyme against T-bet mRNA

<400> 73
gggaccccaag gctagctaca acgacggagc ccg

33

<210> 74
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi DNAzyme against T-bet mRNA

<400> 74
ggtgggggag gctagctaca acgacccacc gga

33

<210> 75
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi DNAzyme against T-bet mRNA

<400> 75
ggcgggggag gctagctaca acgaccgagg gcc

33

<210> 76
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi DNAzyme against T-bet mRNA

<400> 76
gggctgggag gctagctaca acgagggcag gga

33

<210> 77
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td7 DNAzyme against T-bet mRNA

<400> 77
cgtcgaggag gctagctaca acgaccggcc ctc 33

<210> 78
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td8 DNAzyme against T-bet mRNA

<400> 78
gggctggcag gctagctaca acgacttccc gta 33

<210> 79
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td9 DNAzyme against T-bet mRNA

<400> 79
cgatccccag gctagctaca acgaccgggg cg 33

<210> 80
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td10 DNAzyme against T-bet mRNA

<400> 80
gctccacgag gctagctaca acgagcccat ccg 33

<210> 81
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td11 DNAzyme against T-bet mRNA

<400> 81
ccggctccag gctagctaca acgagatgcc cat

33

<210> 82
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td12 DNAzyme against T-bet mRNA

<400> 82
tctccgcaag gctagctaca acgaccggct cca

33

<210> 83
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td13 DNAzyme against T-bet mRNA

<400> 83
ccgtcagcag gctagctaca acgagtctcc gca

33

<210> 84
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td14 DNAzyme against T-bet mRNA

<400> 84
tccccggcag gctagctaca acgacggctc ggt

33

<210> 85
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi5 DNzyme against T-bet mRNA

<400> 85
cccccgcgag gctagctaca acgagcttgtt ccg 33

<210> 86
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi6 DNzyme against T-bet mRNA
<400> 86
gttagggagag gctagctaca acgacccagg ctg 33

<210> 87
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi7 DNzyme against T-bet mRNA

<400> 87
gggcggggcag gctagctaca acgacaaggc gcc 33

<210> 88
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> tdi8 DNzyme against T-bet mRNA

<400> 88
cgggaaaggag gctagctaca acgatcgccc gcg 33

<210> 89
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1)..(33)
<223> td19 DNAzyme against T-bet mRNA

<400> 89
tagccctcag gctagctaca acgagcggcc ccg

33

<210> 90
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td20 DNAzyme against T-bet mRNA

<400> 90
tccccgacag gctagctaca acgactccag tcc

33

<210> 91
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td21 DNAzyme against T-bet mRNA

<400> 91
tttccccgag gctagctaca acgAACCTCC agt

33

<210> 92
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td22 DNAzyme against T-bet mRNA

<400> 92
tgagcgcgag gctagctaca acgACCTCAG ttt

33

<210> 93
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)

<223> td23 DNAzyme against T-bet mRNA

<400> 93

ggaccacaaag gctagctaca acgaaagg tgg

33

<210> 94

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(33)

<223> td24 DNAzyme against T-bet mRNA

<400> 94

cttggaccac gctagctaca acgaaaacagg tgg

33

<210> 95

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(33)

<223> td25 DNAzyme against T-bet mRNA

<400> 95

aaacttggag gctagctaca acgacacaac agg

33

<210> 96

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(33)

<223> td26 DNAzyme against T-bet mRNA

<400> 96

ctgattaaag gctagctaca acgattggac cac

33

<210> 97

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(33)

<223> td27 DNAzyme against T-bet mRNA

<400> 97
tggtgctgag gctagctaca acgataaact tgg 33

<210> 98
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td28 DNAzyme against T-bet mRNA

<400> 98
tgatgatcag gctagctaca acgactctgt ctg 33

<210> 99
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td29 DNAzyme against T-bet mRNA

<400> 99
tggtgatgag gctagctaca acgacatctc tgt 33

<210> 100
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td30 DNAzyme against T-bet mRNA

<400> 100
gcttggtgag gctagctaca acgagatcat ctc 33

<210> 101
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td31 DNAzyme against T-bet mRNA

<400> 101
atgggaacag gctagctaca acgaccggcg tcc

33

<210> 102
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td32 DNAzyme against T-bet mRNA

<400> 102
gaatgggaag gctagctaca acgaatccgc cgt

33

<210> 103
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td33 DNAzyme against T-bet mRNA

<400> 103
tgacagggaaag gctagctaca acgagggAAC atc

33

<210> 104
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td34 DNAzyme against T-bet mRNA

<400> 104
agtaaatgag gctagctaca acgaagggaaat ggg

33

<210> 105
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td35 DNAzyme against T-bet mRNA

<400> 105

cacagtaaag gctagctaca acgagacagg aat

33

<210> 106
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td36 DNAzyme against T-bet mRNA

<400> 106
ccccggccag gctagctaca acgaaagtaaa tga

33

<210> 107
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td37 DNAzyme against T-bet mRNA

<400> 107
ccacaaaacag gctagctaca acgacacctgta gtg

33

<210> 108
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td38 DNAzyme against T-bet mRNA

<400> 108
gtccacaaaag gctagctaca acgaaatccctg tag

33

<210> 109
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td39 DNAzyme against T-bet mRNA

<400> 109
ccacgtccag gctagctaca acgaaaacat cct

33

<210> 110
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td40 DNAzyme against T-bet mRNA

<400> 110
ccaagaccag gctagctaca acgagtcac aaa 33

<210> 111
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td41 DNAzyme against T-bet mRNA

<400> 111
ccaccaagag gctagctaca acgacacgac cac 33

<210> 112
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td42 DNAzyme against T-bet mRNA

<400> 112
gctggtcacag gctagctaca acgacaagac cac 33

<210> 113
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td43 DNAzyme against T-bet mRNA

<400> 113
gctctggtag gctagctaca acgacgcccag tgg 33

<210> 114
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> ttd44 DNAzyme against T-bet mRNA

<400> 114
ctgcacccag gctagctaca acgattgccg ctc 33

<210> 115
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> ttd45 DNAzyme against T-bet mRNA

<400> 115
cacactgcag gctagctaca acgaccactt gcc 33

<210> 116
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> ttd46 DNAzyme against T-bet mRNA

<400> 116
ctttccacag gctagctaca acgatgcacc cac 33

<210> 117
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> ttd47 DNAzyme against T-bet mRNA

<400> 117
gcctttccag gctagctaca acgaaactgca ccc 33

<210> 118
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td48 DNAzyme against T-bet mRNA

<400> 118
ttccctggcag gcttagctaca acgagctgcc ctc 33

<210> 119
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td49 DNAzyme against T-bet mRNA

<400> 119
gtggacgtag gcttagctaca acgaaggcgg ttt 33

<210> 120
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td50 DNAzyme against T-bet mRNA

<400> 120
ccgggtggag gcttagctaca acgagttacag gcg 33

<210> 121
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td51 DNAzyme against T-bet mRNA

<400> 121
cctggcgcag gcttagctaca acgaccagtg cgc 33

<210> 122

<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td52 DNAzyme against T-bet mRNA

<400> 122 .
caaatgaaag gctagctaca acgattcctg gcg 33

<210> 123
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td53 DNAzyme against T-bet mRNA

<400> 123
tttcccaaag gctagctaca acgagaaact tcc 33

<210> 124
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td54 DNAzyme against T-bet mRNA

<400> 124
attgttggag gctagctaca acgagccccc ttg 33

<210> 125
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td55 DNAzyme against T-bet mRNA

<400> 125
tgggtcacag gctagctaca acgatgttgg acg 33

<210> 126
<211> 33

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td56 DNAzyme against T-bet mRNA

<400> 126
tctgggtcag gctagctaca acgaaattgtt gga 33

<210> 127
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td57 DNAzyme against T-bet mRNA

<400> 127
gcacaatcatag gctagctaca acgactgggt cac 33

<210> 128
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td58 DNAzyme against T-bet mRNA

<400> 128
ggagcacaaag gctagctaca acgacatctg ggt 33

<210> 129
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td59 DNAzyme against T-bet mRNA

<400> 129
actggagcacag gctagctaca acgaaaatcat ctg 33

<210> 130
<211> 33
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td60 DNAzyme against T-bet mRNA

<400> 130
atggaggag gctagctaca acgatggagc aca 33

<210> 131
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td61 DNAzyme against T-bet mRNA

<400> 131
tggtaacttag gctagctaca acgaggaggg act 33

<210> 132
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td62 DNAzyme against T-bet mRNA

<400> 132
gggctggtag gctagctaca acgattatgg agg 33

<210> 133
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td63 DNAzyme against T-bet mRNA

<400> 133
tcaacgatag gctagctaca acgagcagcc ggg 33

<210> 134
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td64 DNAzyme against T-bet mRNA

<400> 134
cctcaacgag gctagctaca acgaatgcag ccg 33

<210> 135
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td65 DNAzyme against T-bet mRNA

<400> 135
tcacacctaaag gctagctaca acgagatatg cag 33

<210> 136
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td66 DNAzyme against T-bet mRNA

<400> 136
cgtcgttcaag gctagctaca acgactcaac gat 33

<210> 137
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td67 DNAzyme against T-bet mRNA

<400> 137
gtaaaagatag gctagctaca acgagcgtgt tgg 33

<210> 138
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td68 DNAzyme against T-bet mRNA

<400> 138
aagtaaagag gctagctaca acgaatgcgt gtt

33

<210> 139
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td69 DNAzyme against T-bet mRNA

<400> 139
ggcaatgaag gctagctaca acgatgggtt tct

33

<210> 140
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td70 DNAzyme against T-bet mRNA

<400> 140
tcacggcaag gctagctaca acgagaactg ggt

33

<210> 141
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td71 DNAzyme against T-bet mRNA

<400> 141
aggcagtctag gctagctaca acgaggcaat gaa

33

<210> 142
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td72 DNazyme against T-bet mRNA

<400> 142
atctcggcag gctagctaca acgatctggg agg 33

<210> 143
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td73 DNazyme against T-bet mRNA

<400> 143
gctgagtaag gctagctaca acgactcgcc att 33

<210> 144
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td74 DNazyme against T-bet mRNA

<400> 144
tattatcaag gctagctaca acgatttcag ctg 33

<210> 145
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td75 DNazyme against T-bet mRNA

<400> 145
gggttattag gctagctaca acgacaattt tca 33

<210> 146
<211> 33
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)..(33)
<223> td76 DNAzyme against T-bet mRNA

<400> 146
aaggggtttag gctagctaca acgatatcaa ttt

33

<210> 147
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td77 DNAzyme against T-bet mRNA

<400> 147
ctccggaaag gctagctaca acgacccttg gca

33

<210> 148
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> td78 DNAzyme against T-bet mRNA

<400> 148
gtacatggag gctagctaca acgatcaaag ttc

33

<210> 149
<211> 2588
<212> DNA
<213> Homo sapiens

<220>
<221> td54 bindingsite
<222> (952)..(970)

<220>
<221> td69 bindingsite
<222> (1096)..(1114)

<220>
<221> td70 bindingsite
<222> (1100)..(1118)

<400> 149
cgggccgcgt gагагаагс ccgагагсt gагагаагсt gагагаагсt gагагаагсt
ccaggcgctca gagccccggc tccgggtgggg tccccccaccc gggccctcggg tccccccggc 60
120

cctgtccct	gccccatccca	gccccacgcga	ccctctcgcg	cgccggagggg	cgggtccctcg	180
acggctacgg	gaagggtgcca	gccccccccc	gatgggcata	gtggagccgg	gttgcggaga	240
catgtgcacg	ggcacccgacg	cgatgcgggg	gagcgcacgag	ggccggggcgc	ctggcgcga	300
cccgca	cgactacttc	acceggagcc	gggcgcgcag	gacgcggacg	agcgtcgccg	360
gggcggccgc	ctgggtctc	cctacccggg	gggcgccttgc	gtggccggcc	ccggagccgc	420
cttccttgg	gcctacgcct	acccgcgcgc	accccaggcg	gcccgccttc	ccggcgccgg	480
cgagtccttc	ccgcgcggcg	cggaacgcga	gggcttacca	ccggcgccagg	gctacgcgc	540
cccgacccgc	cgccgcgggc	tctacccggg	gccgcgtgag	gactacgcgc	taccegcggg	600
actggaggt	tcggggaaac	tgagggtcg	gctcaacaac	cacctgttgt	ggtccaagtt	660
taatcagcac	cagacagaga	tgatcatcac	caagcaggga	cgccggatgt	tcccatccct	720
gtcatttact	gtggccgggc	tggagccac	cagccactac	aggatgttg	tggacgttgt	780
cttggtgac	cagcaccact	ggcggtacca	gagcggcaag	tgggtgcagt	gtggaaaggc	840
cgagggcgc	atgcagaa	accgcctgt	cgtccaccc	gactccccca	acacaggagc	900
gcactggat	cgccagaa	tttcatttgg	gaaactaaag	ctcacaaaca	acaagggggc	960
gtccaacaat	gtgacccaga	tgattgtgt	ccagtcctc	cataagtacc	agccccggct	1020
gcataatgtt	gaggtgaac	acggagagcc	agaggcagcc	tgcaacgc	ccaacacgca	1080
tatctttact	ttccaagaaa	cccagttcat	tgccgtgact	gcctaccaga	atgcccagat	1140
tactcagctg	aaaattgata	ataacccctt	tgccaaagga	ttccggaga	actttgatgc	1200
catgtacaca	tctgttgaca	ccagcatccc	ctccccgcct	ggacccaact	gtcaattcc	1260
tgggggagat	cactacttc	ctctcttacc	caaccat	cctgtccca	gccgtttcta	1320
ccccgaccc	cctggccagg	cgaaggatgt	ggttccccc	gcttacttgc	tggggggcccc	1380
ccgggaccac	agctatgagg	ctgagttcg	agcagtcgc	atgaagctg	cattttgc	1440
ctctgc	ggggccacca	tgtctacta	ccgaggccag	gaggcttgc	cacctggagc	1500
tggctggct	gtggcacccc	agtacccctc	caagatggc	ccggccacgt	ggttccggcc	1560
tatgeggact	ctgccccatgg	aacccggccc	tggaggctca	gagggacggg	gaccagagga	1620
ccagggatccc	cccttggtgt	ggactgagat	tgccccatc	ccggccggaa	ccagtgttgc	1680
aggactgggc	gaaggagact	ctaagaggag	gcgcgtgtcc	ccctatc	ccagtggta	1740
cagctccccc	cctgtgtggg	cccccttc	ttttataag	gaagctgaag	gacagtttt	1800
taactat	cccaactgt	cagatgacat	gatgaaagga	acagaaacag	tgttattagg	1860
ttggaggaca	ccgactaatt	tggaaacgg	atgaaggact	gagaaggccc	ccgctccctc	1920
tggcccttct	ctgttttagta	gttgggttggg	gaagtggggc	tcaagaagga	ttttggggtt	1980

caccagatgc	ttcctggccc	acgatgaaac	ctgagagggg	tgtccccc	ccccatcc	2040			
tgc	ccctaact	acagtcgtt	acctgggt	gcgtttgt	tttggttcc	agctggagaa	2100		
aaga	agacaa	gaaagtctt	ggcatgaagg	agcttttgc	atctagtggg	tgggggggt	2160		
cagg	tggtgg	acatgggagc	aggagactcc	actttctcc	tttgc	actgtttcaac	2220		
cttt	cgttgc	gcatgtgt	taatcc	tgc	tccaaaaga	acaaatacac	gtatgttata	2280	
accatc	agcc	cgccagggtc	agggaaagga	ctcac	ctgc	tggac	tggc	2340	
tccc	cctgt	caa	acacagt	ggggatcaga	aaaagg	ggg	tggaaagg	ggaatgg	2400
acat	tc	atc	aagcaagata	ttgttgc	ttgttgc	ttgttgc	ttgttgc	tttttctt	2460
ttt	tttctt	ttt	tgaatgggg	aggctattt	ttgtact	gag	agtgg	gtct	2520
ggat	atattt	tc	ttttgtt	catca	tttgc	tgc	aaaactgt	taaaaaaaa	2580
aaaaaaa									2588

<210> 150
<211> 2450
<212> DNA
<213> Homo sapiens

<220>
<221> mutation
<222> (134)..(134)

<220>
<221> mutation
<222> (310)..(310)

<220>
<221> td54 bindingsite
<222> (952)..(970)

<220>
<221> td69 bindingsite
<222> (1096)..(1114)

<220>
<221> td70 bindingsite
<222> (1100)..(1118)

<220>
<221> mutation
<222> (1399)..(1399)

<220>
<221> mutation
<222> (1556)..(1556)

<400> 150
cgccccgctg gagaggaagc ccgagagctg ccgcgcgcct gccggacgag ggcgtagaag

ccaggcgctca gagcccgggc tccgggtggg tcccccaccc ggccctcggg tcccccgccc	120
cctgtccct gcctatccca gcccacgca ccctctcgcg cgccggagggg cgggtctcg	180
acggctacgg gaagggtgca gcccggccc gatgggcatac gtggacccgg gttgcggaga	240
catgtgtacg ggcacccgagc cgatgcccgg gagcgcacgag ggccggggcg ctggcgccga	300
cccgcagcag cgctacttct accccggagcc gggcgccgag gacgcggacg agcgtcgccg	360
ggcgccgacg ctggggcttc cttacccggg gggcgccctg gtggccggcc cgccgagccg	420
cttccttgg a gcctacgctt accccggccg accccaggcg gccggcttcc cggcgccggg	480
cgagtccttc cccggccccc cggacgcga gggctaccag cccggcgagg gctacgcgc	540
cccgacccg cgcgcggggc tttacccggg gccgcgtgag gactacgcgc taccggccgg	600
actggaggtg tggggaaac tgagggtcgc gctcaacaac cacctgttgt ggtccaagtt	660
taatcagcac cagacagaga tggatcatcac caaggcggga cggcgatgt tccattctt	720
gtcatttact gtggccgggc tggagccac cagccactac aggatgttg tggacgttgt	780
cttgggtggac cagcaccact ggcgttacca gagcggcaag tgggtgcagt gtggaaaggc	840
cgagggcagc atggccaggaa accgcctgtt cgtccacccg gactccccca acacaggagc	900
gcactggatg cgcgcggggc tttcattttgg gaaactaaag ctcacaaaca acaagggggc	960
gtccaacaat gtgacccaga tgattgtgtt ccagtccttc cataagtacc agcccccgtt	1020
gcataatcggtt gaggtgaacg acggagagcc agaggcagcc tgcacacgtt ccaacacgc	1080
tatctttact ttccaagaaa cccagttcat tggcggtact gcctaccaga atgcccggat	1140
tactcagctg aaaaattgata ataaccctt tgccaaagga ttccgggaga actttgagtc	1200
catgtacaca tctgttgaca ccagcatccc ctccccggct ggacccaact gtcaattctt	1260
tggggagat cactacttc ctctcttacc caaccagttt cctgtccca gccgcgttctt	1320
cccccacccctt cctggccagg cgaaggatgt ggtcccccg gcttactggc tggggcccc	1380
ccgggacccac agctatgggg ctgagtttg agcagtcagc atgaaggctt cattttggcc	1440
ctctgccttccc gggccacca tggctacta ccgaggccag gaggtcttgg cacctggagc	1500
tggctggctt gtggaccccc agtaccctcc caagatgggc cggcccgatc ggttcagcc	1560
tatgcggact ctggccatgg aaccggggcc tggaggctca gagggacccgg gaccagagga	1620
ccagggttccc cccttgggtt ggactgagat tggcccccatac cggccggaaat ccagtgtttc	1680
aggactgggc gaaggagact ctaagaggag ggcgcgtgtcc ccctatccctt ccagtgtgtca	1740
cagctcttcc cctgtgtggg ccccttctcc ttttataag gaagctgttca gacagtttta	1800
taactatttt cccaaacttgcg cagatgtacat gatgaaaggaa acagaaacag tggattttagg	1860
ttggaggaca ccgactaatt tggaaacgg atgaaggact gagaaggccc ccgccttcc	1920

tggcccttct	ctgttttagta	gttggttggg	gaagtggggc	tcaagaagga	ttttggggtt	1980
caccagatgc	ttcctggccc	acgatgaaac	ctgagagggg	tgtccccctt	ccccatcctc	2040
tgccttaact	acagtgcgtt	acctgggtct	gcgtcttct	tttggttcc	agctggagaa	2100
aagaagaca	gaaagtcttgc	ggcatgaagg	agcttttgc	atctagtggtt	ttgggggggt	2160
caggtgtggg	acatggggac	aggagactcc	actttctcc	tttgcacagt	aactttcaac	2220
cttttcgttgc	gcatgtgtgt	taatccctga	tccaaaaaga	acaaaatacac	gtatgttata	2280
accatcagcc	cgccagggtc	agggaaagga	ctcacctgac	tttggacagc	ttggctgggc	2340
tccccctgtc	caaacacagt	ggggatcaga	gaaaaggggc	ttggaaagggg	ggaatggccc	2400
acatctcaag	aagcaagata	ttgtttgtgg	ttgttgcgtt	ttgggtgtgt		2450
<210> 151						
<211> 2399						
<212> DNA						
<213> Homo sapiens						
<400> 151						
ggcgcgtct	tgatacttgc	agaaaagaatgc	cattccctgt	aaaaaaaaaa	aaaaaaataact	60
gagagaggg	gagagagaga	gaagaagaga	gagagacgga	gggagagcga	gacagagcga	120
gcaacgc	aatctgaccgc	agggtcgta	ccgcgcgc	ctcctcc	ctgtcttc	180
ctacc	ccagggt	gacccgagga	gggactc	ctccgagcgg	ctgaggaccc	240
gagc	cgtgtgt	cgcagaat	ttgc	ccccc	tttttttt	300
tctgcgt	ccagtttttgc	tttttttttgc	ttcccttct	tcttttgc	aaacgacccc	360
tcca	agataa	ttttaaaaaa	accc	ttgtcaact	ttgttccca	420
cccccc	accc	aaagcaatc	attcaacgc	cccc	ccgcaccc	480
accc	ccagg	ccgg	ccccc	ccgcgggtt	ccggcc	540
cgag	ccac	ccat	gggt	ccgg	ccgg	600
accc	cccg	ccat	ccgg	ccgc	ccgg	660
acat	ggc	ccat	ccgg	ccgc	ccgg	720
gtca	aggc	ccac	cccg	ccct	ccgg	780
acc	cccg	ccac	ccgg	ccgc	ccgg	840
cct	gggt	ccac	ccgg	ccgc	ccgg	900
gccc	tttc	caag	acgt	cc	ttcc	960
cgg	cgtc	atcc	acca	gtt	ccccc	1020
ccac	ccgc	ccgg	gacc	catc	gtgc	1080

cggccccggca	ggacgagaaaa	gagtgcctca	agtaccagg	gcccctgccc	gacagcatga	1140
agctggagtc	gtcccactcc	cgtggcagca	tgaccgcct	gggtggagcc	tcctcgctga	1200
ccaccaccc	catcaccacc	tacccgcct	acgtgcccga	gtacagctcc	ggactctcc	1260
cccccagcag	cctgtctggc	ggctccccca	ccggcttcgg	atgcaagtcc	aggcccaagg	1320
cccggtccag	cacagaaggc	agggagtg	tgaactgtgg	ggcaacctcg	accccactgt	1380
ggccggcgaga	tggcacggga	cactacctgt	gcaacgcctg	ccggctctat	cacaaaatga	1440
acggacagaa	ccggccctc	attaagccca	agcgaaggct	gtctgcagcc	aggagagcag	1500
ggacgtctgt	tgcgaactgt	cagaccacca	caaccacact	ctggaggagg	aatgccaatg	1560
gggacccctgt	ctgcaatgcc	tgtggctct	actacaagct	tcacaatatt	aacagacccc	1620
tgactatgaa	gaaggaaggc	atccagacca	gaaaccgaaa	aatgtctagc	aaatccaaaa	1680
agtgcaaaaa	agtgcatgac	tcactggagg	acttcccaa	gaacagctcg	ttaaccgg	1740
ccggccctctc	cagacacatg	tcctccctga	gccacatctc	gcccttcagc	cactccagcc	1800
acatgtctac	cacgccccacg	ccgatgcacc	cgccatccag	cctgtccctt	ggaccacacc	1860
acccctcccg	catggtcacc	gccatgggtt	agagccctgc	tcgtgcgtca	cagggccccc	1920
agcgagagtc	cctgcagtc	cttgcactt	gcattttgc	aggagcagta	tcatgaagcc	1980
taaacgcgtat	ggatatatgt	ttttaagggc	agaaaagccaa	attatgttg	ccactttgca	2040
aaggagctca	ctgtggtgtc	tgtgttccaa	ccactgaatc	tggacccat	ctgtgaataa	2100
gccattctga	ctcatatccc	ctatthaaca	gggtctctag	tgctgtgaaa	aaaaaaatgc	2160
tgaacattgc	atataactta	tattgtaa	aatactgtac	aatgacttta	ttgcattctgg	2220
gtagctgtaa	ggcatgaagg	atgccaagaa	gtttaaggaa	tatggggagaa	atagtgtgga	2280
aattaagaag	aaacttaggtc	tgatattcaa	atggacaaac	tgccagttt	gtttcccttc	2340
actggccaca	gttgggttgc	gcattaaaaag	aaaataaaaaa	aaagaaaaaa	gagaaaaaga	2399
<210>	152					
<211>	2365					
<212>	DNA					
<213>	Homo sapiens					
<400>	152					
tccca	ccatcccc	caccgaaagc	aaatcattca	acgaccccg	accctccgac	60
ggcaggaggcc	ccccgaccc	ccaggcggac	cgcccttccc	tccccgcgcg	ggttccgggc	120
ccggcggagag	ggcgcgcaga	cagccgaggc	catggagggt	acggcggacc	agccgcgtg	180
ggtgaggccac	caccaccccg	ccgtgcctaa	cgggcagcac	ccggacacgc	accacccggg	240
cctcagccac	tcctacatgg	acgccccgca	gtacccgctg	ccggaggagg	tggatgtgc	300

ttttaacatc gacggtaaag gcaaccacgt cccgcctac tacggaaact cggtcaggc	360
cacgggtcag aggtaccctc cgacccacca cgggagccag gtgtgcgc cgcctctgct	420
tcatggatcc ctaccctggc tggacggcgg caaagccctg ggcagccacc acaccgcctc	480
ccccctggaaat ctcagccct tctccaagac gtccatccac cacggctccc cggggccct	540
ctccgtctac ccccccggct cgtccctcc tttgtcgaaa ggcacgcca gccccacct	600
cttacaccc ccccccaccc cggcgaagga cgtctccccc gaccctatgc tgccacccc	660
aggctcgcc ggctcgcccc ggcaggacga gaaagagtgc ctcaagtacc aggtgcct	720
gccccacgc atagaagctgg agtgcgttca ctcggctggc agcatgaccc ccctgggtgg	780
agcctctcg tggacccacc accccatcac cacctacccg ccctacgtc cggactacag	840
ctccggactc ttccccccca gcacgttgc gggcgctcc cccacggct tcggatgaa	900
gtccaggccc aaggcccggt ccagcacagg cagggagtgt gtgaaactgtg gggcaaccc	960
gaccccaactg tgccggcgg atggcacggg acactacccg tgcaacgcct ggggctta	1020
tcacaaaatg aacggacaga accggccctt cattaaggccc aagcgaaggc tgcgtgaa	1080
caggagagca gggacgttct gtgcgaactg tcagaccacc acaaccacac tctggaggag	1140
gaatgcataat ggggacccctg tctgcataatgc ctgtggctc tactacaagg ttccataat	1200
taacagaccc ctgactatga agaaggaagg catccagacc agaaaacccaa aatgtctag	1260
caaataccaa aagtgcataaa aagtgcata gtcactggag gacttccca agaacagctc	1320
gtttaacccg ggcgcctct ccagacacat gtccctccctg agccacatct cgccttcag	1380
ccactccaggc cacatgtca ccacggccac gccgatgcac ccgcatacca gctgtctt	1440
tggaccacac cacccttcca gcatggtcac cgcctatgggt tagagccctg ctgcgtgtc	1500
acagggcccc cagcgagact ccctgcagtc ctttcgact tgcattttt caggagcagt	1560
atcatgaagg cttaacgcga tggatataatg ttttgaagg cagaaagcaa aattatgtt	1620
gccactttgc aaaggagctc actgtgggt ctgtgttcca accactgaat ctggcccca	1680
tctgtgaata agccattctg actcatatcc cctatttaac agggctctta gtgcgtgtaa	1740
aaaaaaaaat cctgaacatt gcatataact tatattgtaa gaaatactgt acaatgactt	1800
tattgcattt gggtagctgt aaggcatgaa ggtgcacaa agatgtttaagg aatatgggag	1860
aaatatgtgt gaaattaaga agaaaactagg tctgtatcc aatatggacaa actgcccatt	1920
ttgtttccctt tcaactggca cagttgtttt atgcattaaa agaaaataaa aaaaagaaaa	1980
aagagaaaaag aaaaaaaaaaag aaaaaagttt taggcataatc atttgttcaa agctgttggc	2040
cctctgcaaa ggaaatacca gttctggca atcagtgtaa ccgttcacca gttgccattt	2100

agggttcag agagcccttt tctaggccta catgcttgtt gaacaagtcc ctgttaattgt	2160
tgtttgtatg tataattcaa agcacaaaaa taagaaaaga tgttagattt tttcatcata	2220
ttatacagac cgaactgtt tataaattta ttactgta gtcttaagaa ctgcttctt	2280
tcgtttgtt gttcaatat ttcccttctc tctcaattt cggttgaata aactagattt	2340
catcagttt gcaaaaaaaaaaaaaa aaaaaa	2365
<210> 153	
<211> 2728	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> mutation	
<222> (57) .. (57)	
<220>	
<221> mutation	
<222> (59) .. (59)	
<220>	
<221> mutation	
<222> (69) .. (69)	
<220>	
<221> hgd40 bindingsite	
<222> (909) .. (927)	
<400> 153	
ggcgccgtct tgatactttc agaaagaatg cattccctgt aaaaaaaaaaaa aaaaaaaaaat	60
actgagagag ggagagagag agaagaagag agagagacgg agggagagcg agacagagcg	120
agcaacgcaa tctgaccgag caggcgtac gccgcgcct cctccctctc tctgtcttc	180
gctaccagg tgaccggagg agggactccg cctccgagcg gctgaggacc ccgggtcaga	240
ggagcctggc tcgcagaatt gcagatgtt cgcggccctt tacaacctgg tcccggttta	300
ttctgcata cccagttttt ggattttgtt ettecccttc ttcttttgc taaacgaccc	360
ctccaagata atttttaaaa aaccccttcc tttgttcacc tttgttccc agccttcca	420
tccccccacc gaaagcaaat cattcaaaega cccccgaccc tccgacggca ggagcccccc	480
gaccccccacg gcccggccccc ctccctcccc gcccgggggt tccggggcccg gccggccggc	540
gcccggccatcc gcccggccatcc ggaggtgacg gcccggccatcc cccggggccgtt gcccggccatcc	600
caccccccggc tgctcaacgg gcagcacccg gacacgcacc accccggccct cagccactcc	660
tacatggacg cggcgcagta cccgcgtccg gaggaggatgg atgtgtttt taacatcgac	720
ggtcaaggca accacgtccc gcccactac ggaaactcg tcaaggccac ggtgcagagg	780
taccctccga cccaccacgg gagccagggtg tgccgcgcgc ctctgtttca tggatccctc	840

cctggctgga	cgccggcaaa	gccctggca	gccaccacac	cgcctcccc	tggaatctca	900
gccccttctc	caagacgtcc	atccaccacg	gctcccccgg	gccccctctcc	gtctacccccc	960
cggcctcgtc	ctcctcttg	tcggggggcc	acgcccagcc	gcacctcttc	accttccgc	1020
ccaccccgcc	gaaggacgtc	tccceggacc	catcgctgc	caccccgagc	tcggccggct	1080
cggcccgca	ggacgagaaa	gagtgcctca	agtaccaggt	gccccgtccc	gacagcatga	1140
agctggagtc	gtccccactcc	cgtggcagca	tgacegcct	gggtggagcc	tcctcgctcga	1200
cccaccaccc	catcaccacc	tacccgcct	acgtgcccga	gtacagctcc	ggactcttcc	1260
cccccagcag	cctgtctggc	ggctccccca	ccggcttcgg	atgcaagtc	aggcccaagg	1320
cccggtccag	cacagaaggc	agggagtggt	tgaactgtgg	ggcaacctcg	accccactgt	1380
ggcggcgaga	tggcacggg	cactacctgt	gcaacgcctg	cgggctctat	cacaaaatga	1440
acggacagaa	cgggccctc	attaagccca	agcgaaggct	gtctcgagcc	aggagagcag	1500
ggacgtctcg	tgcgaaactgt	cagaccacca	caaccacact	ctggaggagg	aatgccaatg	1560
gggacctgt	ctgcaatcg	tgtggctt	actacaagct	tcacaatatt	aacagacccc	1620
tgactatgaa	gaaggaaaggc	atccagacca	gaaaccgaaa	aatgtctagc	aaatccaaaa	1680
agtcaaaaa	agtgcatgac	tcactggagg	acttcccaa	gaacagctcg	ttaaccgg	1740
ccgcctctc	cagacacatcg	tcctccctga	gccacatctc	gcccttcagc	caccccgagcc	1800
acatgctgac	cacgccccacg	ccgatgcacc	cgccatccag	cctgtccctt	ggaccacacc	1860
acccctccag	catggtcacc	gccatgggtt	agagccctgc	tgatgctcac	agggccccc	1920
gctgagatcc	ctgcagttcc	tttcgacttg	catttttgc	ggagcagtt	catgaaggct	1980
aaacgcgtat	gatatatgtt	tttgaaggca	gaaagcaaaa	ttatgctgc	cactttgca	2040
aggagctcac	tgtgggtct	gtgttccaaac	cactgaatct	ggaccctatc	tgtgaataag	2100
ccattctgac	tcataatcccc	tatttacag	ggtctctagt	gctgtaaaa	aaaaaatgc	2160
tgaacatgac	atataactta	tattgtaa	aatactgtac	aatgacttta	ttgcacatcg	2220
gtagctgtaa	ggcatgaagg	atgccaagaa	gtttaaggaa	tatggggaa	atagtgtgga	2280
aattaagaag	aaacttagtgc	tgatattcaa	atggacaaaac	tgccagttt	gttccctttc	2340
actggccaca	gttgggtat	gcattaaaag	aaaataaaaa	aaagaaaaag	agaaaaagaaa	2400
aaaaaagaaa	aaagttgtag	gctaatcatt	tgttcaaagc	tgttggctc	tgcaaaggaa	2460
ataccagttc	gggcaatcag	tgttaccgtt	caccagtgc	cattgagggt	ttcagagagc	2520
ctttttctag	gcctacatgc	tttgtgaaca	agtccctgt	attgtgttt	gtatgtataa	2580
ttccaaagcac	caaataaga	aaagatgtag	atttatttca	tcatattata	cagaccgaac	2640

tgttgtataa atttatttac tgctagtc tt aagaactgt ttctttcg tt gttttgttc 2700
aatatttcc ttctctctca atttcgg 2728

<210> 154
<211> 15
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(15)
<223> Catalytic Domain of DNAzyme against GATA-3mRNA

<400> 154
ggctagctac aacga 15